



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0257/S-96, REVISION 8

East Building, PHH-23
1200 New Jersey Avenue SE
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model 849.
2. Source Description - Cylindrical single encapsulation made of Type 410 stainless steel and seal welded. Approximate exterior dimensions are 12.7 mm (0.5 in.) in diameter and either 38 mm (1.5 in.) or 50.8 mm (2.0 in.) in length. Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. R84901, Rev. C.
3. Radioactive Contents - No more than either 55.5 TBq (1,500 Ci) of Iridium-192 in the 38 mm (1.5 in.) length capsule, or 74 TBq (2,000 Ci) of Iridium-192 in the 50.8 mm (2.0 in.) length capsule, or 74 TBq (2,000 Ci) of Selenium-75 in either length capsule, or 37 GBq (1.0 Ci) of Californium-252 in either length capsule. The Ir-192 is in solid metallic form. The Se-75 is in the form of a metal-selenide pellet. The Cf-252 is in the form of a metal wire or an oxide solid ceramic.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on July 31, 2012. On July 31, 2008, this certificate supersedes all previous revisions of USA/0257/S-96.

¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.


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This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the May 02, 2008 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



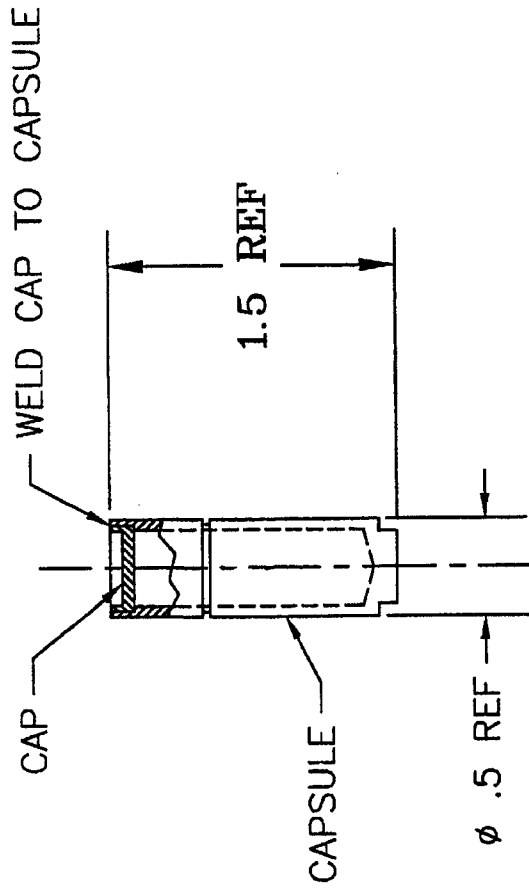
May 16 2008

 Robert A. Richard

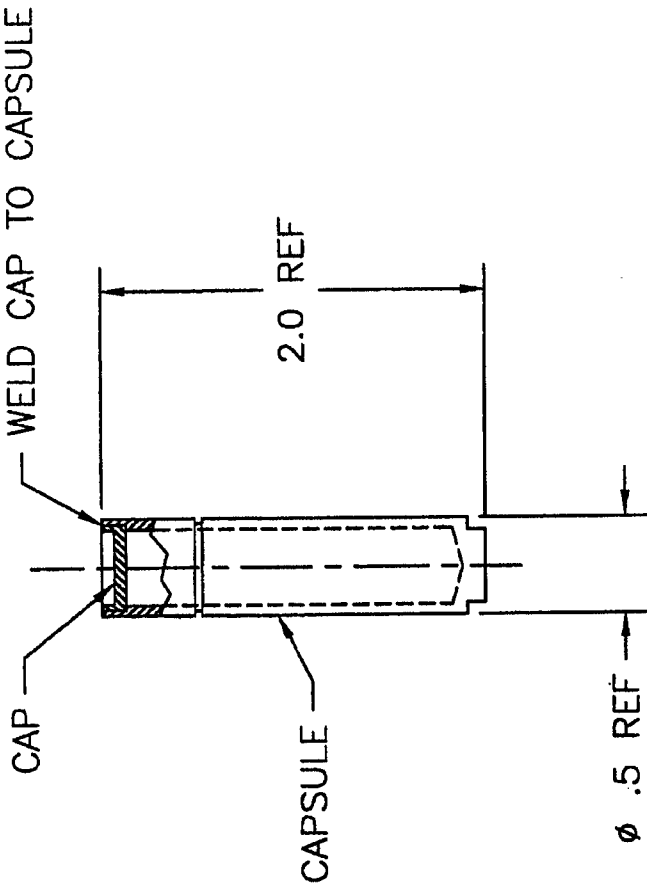
(DATE)

Deputy Associate Administrator for Hazardous Materials Safety

Revision 8 - Issued to increase the Se-75 activity authorized content.



VERSION 1



VERSION 2

NOTE:

1. LEAK TEST IN ACCORDANCE WITH ANSI N43.6 OR ISO 9978.

| | | | | | | |
|--|--|----------------------|--|---|------------------------------------|-----------------|
| APPROVALS R. J. Munro L. P. DeLoe | | 6 Nov 03 6 Nov 03 | | AEATECHNOLOGY QSA 40 NORTH AVE, BURLINGTON, MA 01803 | DESCRIPTIVE DRAWING | |
| DIMENSIONS IN INCHES TOLERANCES: FRACTIONS $\pm 1/16$ X ± 0.1 XX ± 0.01 XXX ± 0.005 | | | | | TITLE 849 CAPSULE, ASSEMBLY | |
| SIZE A | | | | | DWG. NO. R84901 | |
| SCALE: NONE | | | | SHEET 1 OF 1 | | REV C |

ERF#707



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CERTIFICATE NUMBER: USA/0257/S-96, Revision 8

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